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NASA Office of Education



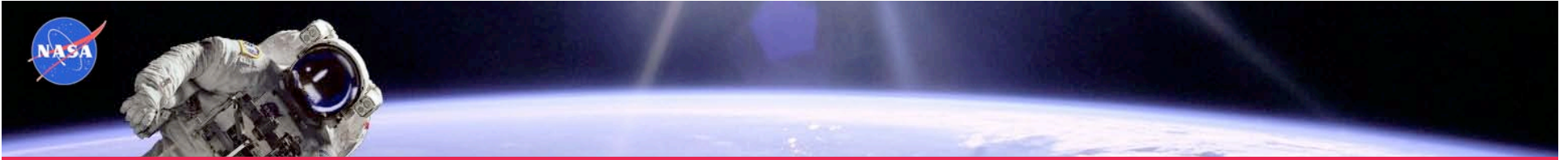


Elementary & Secondary Education

Informal Education

Higher Education

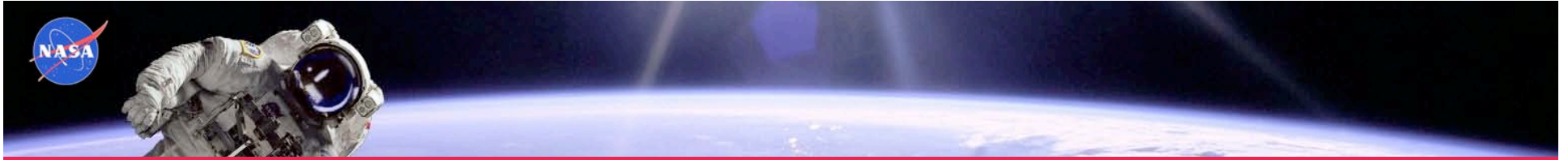
Minority University Research & Education



Higher Education Program

NASA's Higher Education Program provides research, institutional, and academic support to students and faculty to advance the Agency's education, research, development, and human capital requirements. Projects are designed to facilitate the seamless access to unique research, education, and career opportunities offered by NASA.

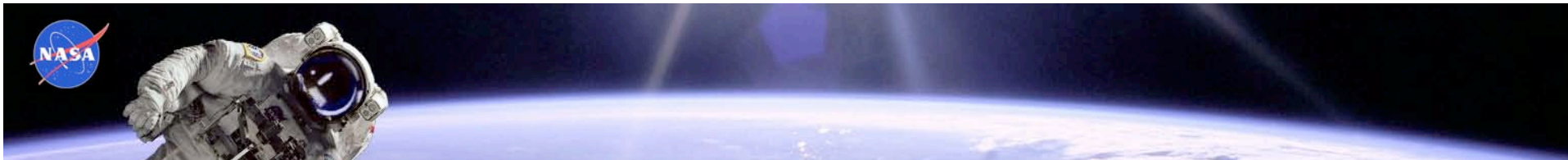
The Higher Education Program is aligned with the Agency's Human Capital Strategy, the President's Management Agenda, and the Vision for Space Exploration.



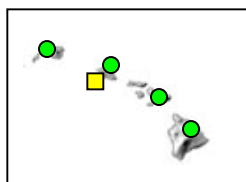
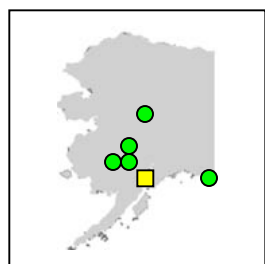
Higher Education Program Strategy

- **2-Year Colleges and Universities**
- **4-Year Colleges and Universities**
- **Graduate Programs**
- **Post-Doctoral Research**
- **Faculty Support**
- **Institutional and Infrastructure**

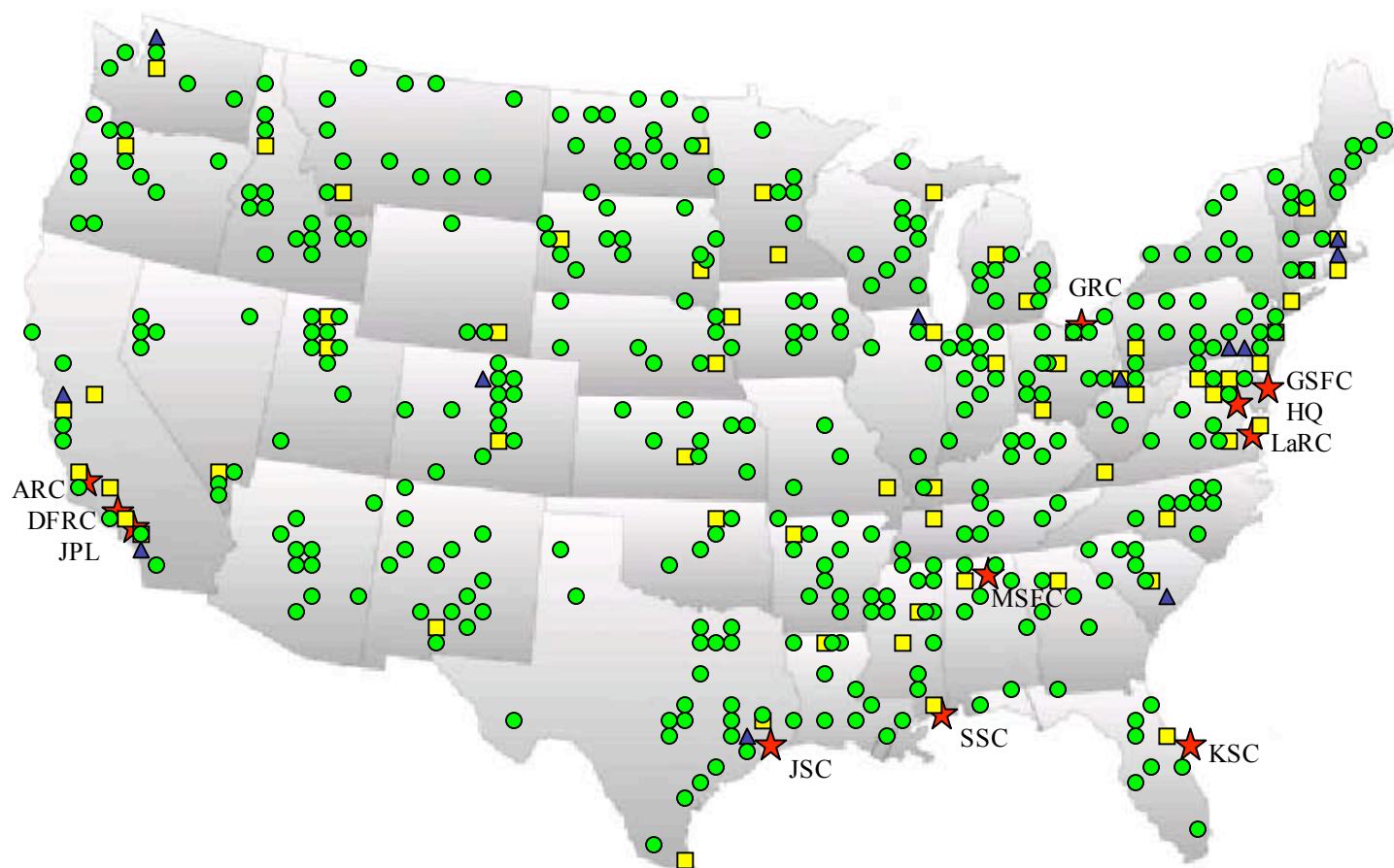




NASA'S HIGHER EDUCATION PROGRAMS

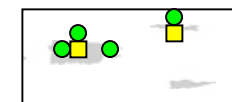


● Guam



LEGEND

- | | |
|---|------------------|
| ★ NASA Field Centers | <11 Locations> |
| ■ NASA Educator Resource Center Network | <69 Locations> |
| ▲ Space Science Support Network | <12 Locations> |
| ● Space Grant Consortium Network | <835 Affiliates> |





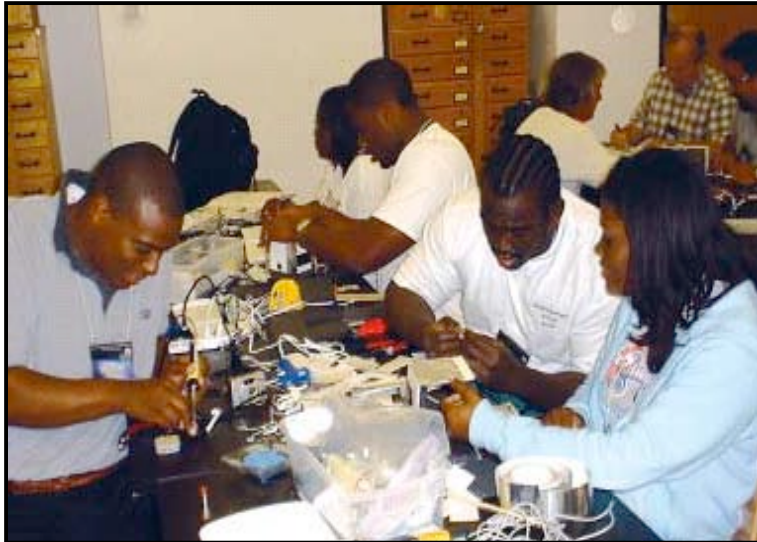
- Strengthens STEM curriculum development at 2 & 4 year Minority Serving Institutions
- Provides a pool of talent in critical skills areas
- Expands the impact area of NASA's STEM content
- Builds research and competitive capacity at MSIs
- Supports aerospace teaching



Award: \$100K per year for 3 Yrs.



PARTNERSHIP AWARDS FOR THE INTEGRATION OF RESEARCH INTO STEM UNDERGRADUATE EDUCATION (PAIR)



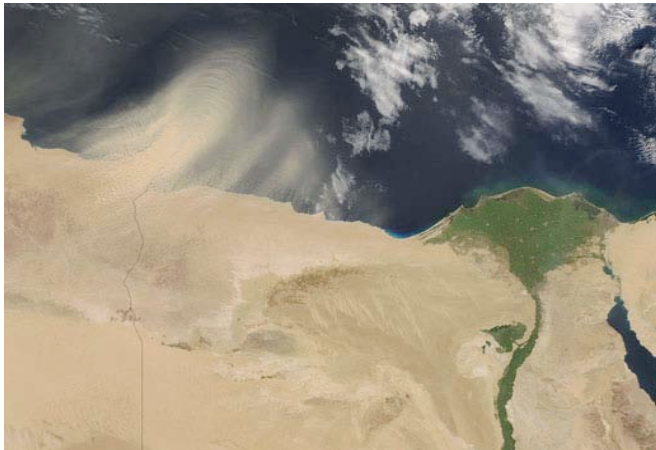
- Integrates mission research into undergraduate education
- Supports undergraduate teaching
- Increases the number of STEM graduates
- Promotes cross-disciplinary study in collaboration in STEM areas
- Encourages partnerships with Centers, Universities, and Industry

Award: \$300K per yr for 4 Yrs
Eligibility: MSIs



Building the Future Together

INTEGRATED SOLUTIONS FOR K-16 AND INFORMAL EDUCATION



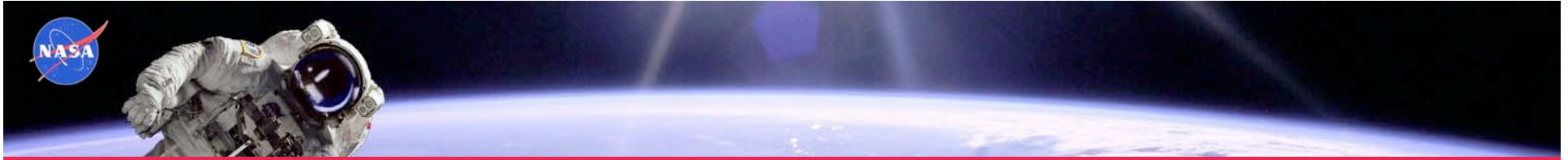
Dust in the Desert



The Emerald Isle

- Teacher preparation in earth science and geography
- Strengthens the undergraduate institutional capacity in Earth System Science and applications (e.g. new major or minor, new course in earth science)
- Enriches public scientific literacy about the Earth System and the environment

•**Award:** 1 YR Concept Study = \$35K \$80K
•3 YR Proposal = Up to \$300K per year



SCIENCE & TECHNOLOGY SCHOLARSHIP PROGRAM

- Scholarship and research opportunities to students pursuing degrees in STEM fields supportive of NASA's R&D mission
- 3.0 overall GPA
- Full-time college/university student
- Service Agreement to work in a NASA field of critical need, determined by Human Resources, Centers, and Mission Directorates, and matched to student's degree field
- Maximum commitment = 4 years



Award:

- Up to \$20K (tuition, fees, and related expenses)
- Up to \$10K for required research experience
- Application Status: Release pending



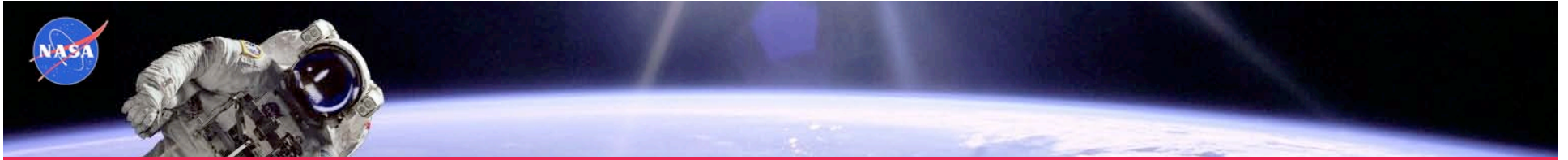
MINORITY UNIVERSITY & COLLEGE EDUCATION & RESEARCH PARTNERSHIP

- Develops research and academic capabilities in space science at minority universities. Participating universities must have:
- Direct intellectual and/or programmatic linkage to current scientific content or future direction of the Science Mission Directorate
- Partnership with NASA-sponsored space science researchers and research groups at major universities
- Direct link to building institutional capabilities, alignment with the institution's long-term plans, and commitment to sustaining the project after the award period



Barred Spiral Galaxy NGC 1300

**\$275K per year for 3
Years**



JENKINS PREDOCTORAL FELLOWSHIP PROGRAM

- Support for Masters and Doctoral degrees
- Mini-Grants to students to sustain research in NASA content areas
- Technical Symposia for career enhancement and professional development
- 3.0 GPA



3 Yr Awards:

- PhD = \$33,500/Yr
- MS \$27,500/Yr
- Application: Opens Aug 1 – closes Jan 31



GRADUATE STUDENT RESEARCH PROGRAM (GSRP) & EARTH SYSTEM SCIENCE GRADUATE FELLOWSHIP PROGRAM (ESSGFP)

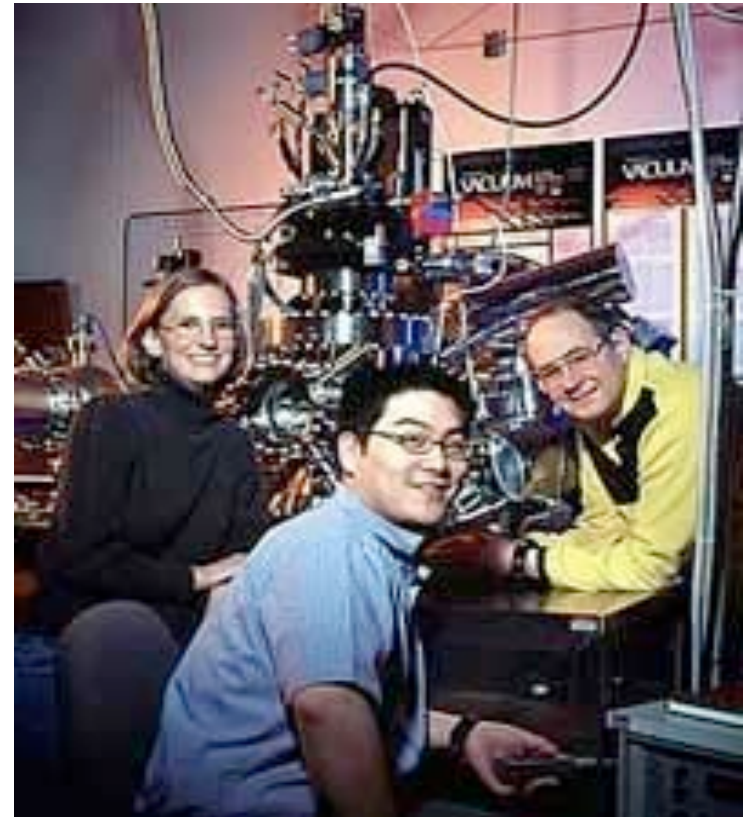
- Graduate support for MS and PhD
 - Masters and Doctoral Programs
- Mission critical R&D that aligns with
 - Vision for Space Exploration
- Research topics - defined by Centers and Mission Directorate scientists and engineers
- Research Proposal and Adviser



**\$24k/Yr for 3 Yrs
Opens in Sep
GSRP due Feb 1
ESSGFP due Mar 15**

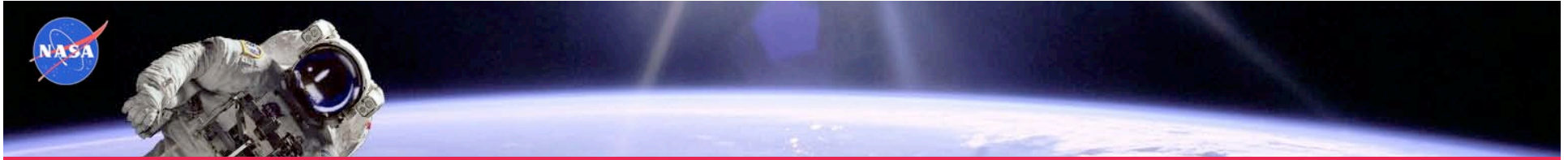


- Supports guest investigators at NASA Centers
- Research in response to NASA published opportunities
- National and International researchers with expertise in mission areas
- Four Reviews
- Awards up to two years



Stipends begin at \$50K for 1st level Associates

Negotiated stipends for Senior Fellows

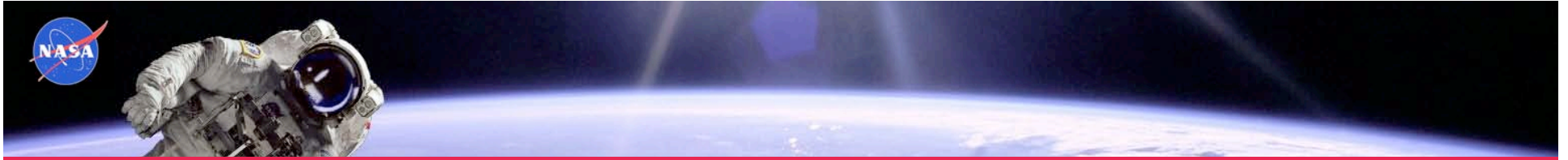


NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM

- Supports education, research, and public service through a national network in each state
- Encourages collaboration among universities, industry,
- Recruitment and training of STEM graduates
- 52 university-based Space Grant Consortia

Apply through State Space Grant Universities. Awards vary.





FACULTY AWARDS FOR RESEARCH

- Strengthens research capacity at 2 & 4 Yr Minority Institutions
- 25% of award must be dedicated to student support
- Available to faculty who have received less than \$100K NASA funding in past 5 years.



Awards: \$100K /Yr for 3 Yrs

RFP to be released in
Late Spring 2005

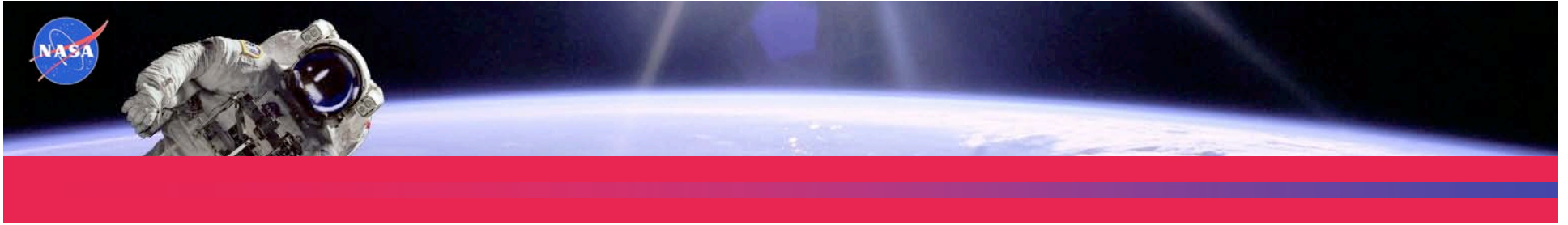


University Research Centers

- Multidisciplinary NASA-related STEM research at minority universities
- Fosters new aerospace science and technology concepts
- Expands the national base of R&D
- Increases faculty and student involvement in NASA R&D
- Supports advanced degrees



Awards: 5 Year Awards up to \$1.2 M
(25% of
funding for direct student support)



WWW://EDUCATION.NASA.GOV